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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/698,433	11/03/2003	Jung-Keun Ahn	P56975	1520
7590 11/16/2006			EXAMINER	
Robert E. Bushnell			LONEY, DONALD J	
Suite 300 1522 K Street, N.W.			ART UNIT	PAPER NUMBER
Washington, DC 20005-1202			1772	
			DATE MAILED: 11/16/2006	5

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
	10/698,433	AHN ET AL.
Office Action Summary	Examiner	Art Unit
	Donald Loney	1772
The MAILING DATE of this communication app		<u> </u>
Period for Reply		·
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).
Status	•	
1) ☐ Responsive to communication(s) filed on <u>05 Second</u> 2a) ☐ This action is FINAL . 2b) ☐ This action is application is in condition for alloware closed in accordance with the practice under Expression in the practice of the	action is non-final. nce except for formal matters, pro	•
Disposition of Claims		
4) Claim(s) 1-15 and 21-23 is/are pending in the a 4a) Of the above claim(s) is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) 1-15 and 21-23 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or Application Papers 9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the ore Replacement drawing sheet(s) including the correction in the oregin of the correction of the oregin of the correction in the oregin of the correction in the oregin of the correction of the oregin of the correction in the oregin of the origin of the or	vn from consideration. r election requirement. r. epted or b) □ objected to by the I drawing(s) be held in abeyance. Section is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in Applicati ity documents have been receive (PCT Rule 17.2(a)).	on No ed in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 06/27/06.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on September 5, 2006 has been entered.

Claim Objections

- 2. Claim1 is objected to because of the following informalities: In line 8, there is direct antecedent basis for "non-reinforcing dummy ribs". There are only "dummy ribs" and "reinforcing ribs" previously recite. Appropriate correction is required.
- 3. Claim 23 is objected to under 37 CFR 1.75 as being a substantial duplicate of claim 22 since claim 23 does not recite any specific structure therein which would distinguish from claim 22. When two claims in an application are duplicates or else are so close in content that they both cover the same thing, despite a slight difference in wording, it is proper after allowing one claim to object to the other as being a substantial duplicate of the allowed claim. See MPEP § 706.03(k).

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Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 5. Claims 1, 5, 21, 22 and 23 are rejected under 35 U.S.C. 102(b) as being anticipated by Tanaka (64000080).

Tanaka teaches a plasma display as recited wherein dummy ribs are formed outside the display area. Refer to figures 1 and 4 showing dummy ribs 7, 8 and 9. This rejection was made to specifically address claims 1 and 5 since dummy rib 8, which appears shorter than ribs 7 and 9, can be considered the reinforcing rib which is different than the other dummy ribs as recited. The applicants' recitation that the dummy ribs be able to withstand sandblasting, in claims 21 22 and 23 does not structurally distinguish the claims from the prior art, which teaches dummy ribs, since this is only a matter of degree. One could lightly sandblast which would not affect the dummy ribs. As to at least one rib being continuous, it appears that from the figure that when looking at one rib it is continuous. The examiner does not see how this limitation distinguishes from the prior art since when looking at one rib it would be continuous as recited.

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Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. Claims 2-4, 6, 7 and 10-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tanaka in view of Yoo as presented in the last office action, mailed April 4, 2006.

The primary reference teaches the invention substantially as recited except for the reinforcing ribs being of a closed ring of a circular or polygonal hollow structure per claims 2-4, 10 and 11. See the 35 U.S.C. 102 rejection above.

Yoo teaches that a closed ring polygonal or circular structure 23 can be used to reinforce and space two substrates in a display device. Refer to figure 2 along with the Abstract and column 2, line 24 through column 3, line 53.

Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to the primary reference to use a closed ring polygonal or circular structure to reinforce the spacing of the substrates, as taught by Yoo, motivated by the fact Yoo teaches this structure used for the same purpose as the primary references. With regards to claims 6, 7, 12 and 13 it would have been obvious to use the varying different structures, or particular numbers of sets of ribs, since this would only involve a change is shape or size of the ribs, which generally is considered within ordinary skill in the art. See MPEP 2144.04IV.

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Response to Arguments

Applicant's arguments filed September 5, 2006 have been fully considered but 8. they are not persuasive. The applicant argues Tanaka et al does not specifically teach the dummy ribs can withstand sandblasting. This is not persuasive since, as previously indicated by the examiner, one could only lightly sandblast without affecting the ribs. The prior arts structure is the same as the applicant's and no materials and/or strength of sandblasting is recited which may distinguish over the prior art. The applicant argues that Tanaka et al teaches that dummy ribs 7, 8 and 9 are the same height and width as barrier ribs 5. However, form figure 4, dummy ribs 8 are shorter than dummy ribs 7 or 9 which reads upon the recited language of "being different in design" in line 7 of claim 1. Also, from figure 1, dummy rib 8 is short and straight while dummy rib 7 (at the corners) is L-shaped, which are different in design. The applicant argues that the closed structure of Yoo could not be used as a dummy rib since it is too large and would extend over the entire substrate, through both the image and non-image areas. This is not persuasive since the examiner is not relying on Yoo for its size, just its closed structure applied to the primary reference. The applicant argues that it is not fairly suggested that the closed ring honeycomb structure of Yoo could or should be formed as a straight line series of closed loops. This is not commensurate in scope with the instant claims since the claims do not recite said limitation. With regards to the applicant suggesting the limitations of claim 10 have not been addressed or discussed. The combination of the references teaches the hollow closed structure (i.e. polygonal or circular as discussed above.

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Allowable Subject Matter

9. Claims 8, 9 are 15 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims as previously indicated.

The following is a statement of reasons for the indication of allowable subject matter: the prior art fails to teach the zig-zag structure of the ribs per claim 9 and the interconnected dummy ribs of claims 8 and 15.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Donald Loney whose telephone number is (571) 272-1493. The examiner can normally be reached on Mon, Tues, Thurs and Fri. 8AM-4PM, flex schedule.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Harold Pyon can be reached on 571 272-1498. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Donald Loney Primary Examiner

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DJL:D.Loney 11/12/06